

REF. 1

25X1A

25X1A

Copy 1 of 1

18 APR 1967

MEMORANDUM FOR: Director of Special Activities

ATTENTION: Deputy for Research and Development, OSA

SUBJECT: Data Readout Facility for [REDACTED]
Tests Aboard U-2R

25X1D

25X1D

1. Recommendation is made that ASD/OEL be permitted to set up a test instrumentation facility at Edwards North Base for the [REDACTED] [REDACTED] With the phase-out [REDACTED] certain instrumentation transfer could be accomplished to meet partial facility needs. ASD/OEL funding to the amount of [REDACTED] can be committed from Category IV of the ASD/OEL budget for FY-1967 to complete instrumentation needs and instrument installation costs.

25X1A

2. The proposed facility will provide for the following functions:

a. Calibration and maintenance of interface, recording, and data reduction devices.

b. Facilities for reduction and interpretation of data collected during flight qualification of systems.

c. Checkout and maintenance of systems undergoing test.

d. Storage facilities for data and equipment.

25X1A

SECRET

[REDACTED]

25X1A

[REDACTED]

25X1A

Page 2

3. Systems qualification tests to date have been conducted without provision for on-the-spot data readout and reduction. Requirements for parameter monitoring were resolved by modification and assemblage of borrowed components aboard the aircraft. This was both an inefficient and a time consuming solution relative to data base and quantitative readout. The intent of the proposed facility is to create a capability for rapid data readout and interpretation immediately upon completion of any given [REDACTED] light test.

25X1A

4. Attachment 1 contains a list of the required equipment. The total cost is approximately [REDACTED]. A possibility exists that perhaps one-third of this can be saved by allocating equipment released from [REDACTED]. The figure quoted above is a budgetary estimate and does not include installation costs.

25X1

25X1A

5. Block diagrams of the proposed installation are shown in Figures 1 and 2. The ground equipment will require approximately seven standard six foot high consoles and will consist of playback, recording, processing, and calibration facilities. A room size of approximately 20 x 20 should be sufficient to contain the equipment and provide adequate work and storage space. Standard 60, 400 cps AC and 28 VDC power outlets will be required. Equipment maintenance will be performed by ASD/OEL and contractor personnel.

6. A room of the size designated will also provide space for storage of the standard and special equipments required for preflight, postflight, and maintenance of [REDACTED] under test. All airborne instrumentation, when not in use, will be stored in the facility area and made available for specific [REDACTED] functions; i. e., special

25X1A

25X1A

[REDACTED]

25X1A

25X1A

[Redacted]

25X1A

[Redacted]

Page 3

25X1A

sensors, recording transducers, recorders, etc., thus providing a ready pool of precision equipment for use of all concerned.

[Redacted]

25X1A

GEORGE C. MILLER
Director of ELINT
DD/S&T

Attachments:

- 1.
- 2.
- 3.

[Redacted]

CONCURRENCE:

[Redacted]

PAUL N. BACALIS, D/OSA

27 June 67
DATE

Distribution:

Cys 1&2 - D/OSA w/atts. (Cy 1 to be returned to D/OEL)

Cy 3 - D/OEL w/atts.

Cys 4&5 - ASD/OEL w/atts.

Cy 6 - OEL Reg. w/atts.

ASD/OEL [Redacted] pt:7671 (7 Apr 67)

[Redacted]

[Redacted]

25X1A

25X1A

25X1A

INSTRUMENTATION FOR RAPID DATA
READOUT FACILITY

A tentative list of required equipments is as follows:

I. Airborne	<u>Quantity</u>
A. Recorders, Data	2
B. Time Code Generator	1
C. Cameras	2
D. Transducers	NA
E. Time Code Generators	2
F. Monitoring Devices	
1. VCO's	30
2. Power Supply	4
G. Isolation Amplifiers	6
H. Mixer Amplifiers	6
II. Ground Based	
A. Calibrating Signal Generators	7
B. Tape Playbacks	2
C. Time Reference Oscillator	1

25X1A

[Redacted]

25X1A

[Redacted]

25X1A

Page 2

	<u>Quantity</u>
D. Plotting Board	1
E. Spectrum Analyzer	1
F. Counters, EPUT Meters	4
G. Photographic Equipment	
1. Cameras & Controls	Unknown
2. Intervalometer & Controls	Unknown
3. Projectors	2
4. Screen	1
5. Viewer	1
6. Film Splicer	1
H. Voltmeters	3
I. VLF Receiver	1
J. Voltage to Frequency Converters	3
K. Audio Filters	6
L. Scopes	3
M. Strip Chart Recorders	2

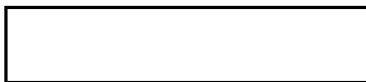
25X1A

[Redacted]

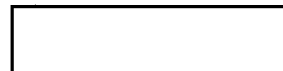
SECRET

25X1A

SECRET



25X1A



25X1A

Page 3

Quantity

N. Calibration Equipment

1. Digital Voltmeter	1
2. D.C. Source	2
O. Audio Discriminators	6
P. Slide Projector	1
Q. Panoramic Analyzer	1
R. Scope Cameras	1
S. Consoles	7
T. Work Benches	4
U. Modulators	4
V. Attenuators	4
W. Power Meters	2
X. X-Y Recorder	1

SECRET

25X1A

25X1A

25X1D

Approved For Release 2003/11/25 : CIA-RDP68B00724R000200190085-7

Next 1 Page(s) In Document Exempt

Approved For Release 2003/11/25 : CIA-RDP68B00724R000200190085-7